State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-84 Relating to Certification of New Motor Vehicles

VOLVO CAR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Volvo Car Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TVV2.9VJGFEL <u>Displacement</u>: 2.9 Liters (178 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Sequential Multiport Fuel Injection Heated Oxygen Sensors (Two) Three Way Catalytic Converter Secondary Air Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards (in-use compliance standards in parentheses) for this engine family in grams per mile are:

Milea	Non-Methane	Carbon	Nitrogen	Carbon	
	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	Monoxide (20 ⁰ F)	
50,000	0.25 (0.32)	3.4 (5.2)	0.4 (0.4)	10.0 (10.0)	
100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a	

The certification exhaust emission values for this engine family in grams per mile are (values in parentheses are actual certification values before rounding off):

Miles	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20°F)
50,000	0.11	1.7	0.0 (0.05)	5.9
100,000	0.11	1.9	0.0 (0.05)	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this

day of August 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O.# A-18-84

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page_____

Manufacturer: VOL						ap Fam: Tvvic	75AYPAA
All Eng Codes in	Eng Fam: CA_	49	PS	50S <u>X</u>	AB965		
Exh Std: CA Tier	-1 <u>X</u> TLE	:V	LEV	ULEY_	ZEV	; US EPA	Tier-1 <u>X</u>
Evap Std: 50K_X	Useful Lif	e with R/	′L In	-Use Ex	ch Std: Full I	n Use A1	t In Use <u>X</u>
Veh Class(es): P	C_X_LDT1_	LDT2_	MDV1	M	IDV2MDV3_	MDV4	MDV5
Single Cert Std f	for Multi-Clas	s Eng Fam	ı: <u>N/A_</u> (specify	: N/A, LDT1,	MDV1, MDV2,	MDV3, MDV4)
Fuel Type(s): De		_			Bi-Fuel pecify)		
E s Test Fuel(s					R 86.113-90		
Pervice Accum: S	· · · · · · · · · · · · · · · · · · ·						
NMOG Test Procedu							
Hy. id: Type A							
Engine Configurat							
Valves per Cylind							
Engine: Front X							
chaust ECS (e.g.	., MFI, EGR, 1	C, CAC):_	551, HO2	25(2), 7 se abbre	rwc, AIK	SAF J1930 SEF	291)
Engine Code Vet (also list (if		Trans. (M5, A4	ETW	DPA	Ignition (ECM/PCM)	EGR System	Catalytic Converter
CA/49ST/50ST at	ttachment)	etc.)	Test Wt.	RLHP	Part No.	Part No.	Part No.
T96:2 (50ST) 9	·	A4 ·			0261 203 654		9146663
				_		·	
		AW 30-40	3875	8.6			}
(AW 30-40	2875	9.4]	
		AW 30-40	30.70				
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Date Issued:			1	<u> </u>			

Revisions: